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YASKAWA ELECTRIC CORP

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(54) ELECTROMAGNETIC ACTUATOR

(57)Abstract:

PROBLEM TO BE SOLVED: To simplify a structure and to obtain stable torque.

SOLUTION: An electromagnetic actuator is constituted by providing a fixed internal gear 6 fixed to a fixed member 1, rotary internal gear 7 with a number of teeth slightly different from the fixed internal gear 6, external gear 2 meshed with both the fixed/rotary internal gears 6, 7, stator 3 provided in the fixed member 1 and a rotor provided in the external gear 2 to be opposed to the stator 3 through a cavity. Here, the external gear 2 is fixed to a rotary shaft 21 rotatably supported to the fixed member 1, further so as to mesh with both the fixed/rotary internal gears 6, 7 through a plurality of planet gears 5.



